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25-BC-24

M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION MAY - JUNE 2025

BIOCHEMISTRY

Paper - IV

[Genetics]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain various types of Epistasis with example. (15 Marks)

OR

Write note on -

i) Multiple Allelism. (05 Marks)

ii) Linkage. (10 Marks)

Q. 2 Describe gene mapping through two factor genetic crosses. (15 Marks)

OR

Write note on -

i) Interference. (05 Marks)

ii) Ordered tetrad analysis. (10 Marks)

Q. 3 Discuss in detail Hardy Weinberg principle. (15 Marks)

OR

Write notes on -

i) Gene. (05 Marks)

ii) Somatic cell hybridization. (10 Marks)

Q. 4 Describe conjugation with its mechanism. (15 Marks)

P.T.O.

OR

Write note on -

i) Retrotransposons. (05 Marks)

ii) Transformation. (10 Marks)

Q. 5 Define Mutation. Explain various types of Mutation. (15 Marks)

OR

Describe in detail various types of DNA Repair Mechanism. (15 Marks)

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